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## SUPPLEMENTARY DATA

Supplementary table S1. Baseline demographics of cohort

Baseline data table	
Number of paired readings	31074
Number of patients	8509
Mean Baseline Age (yrs, SD)	57.3 (12.2)
Gender (% Female)	76%
Mean Baseline Disease Duration (yrs, SD)	12.7 (9.6)
BMI (SD)	26.9 (6.0)
Mean DAS28-ESR (SD)	4.44 (1.73)
Mean DAS28-CRP (SD)	4.13 (1.60)

Supplementary table S2. Number of patients by disease activity category for DAS28-ESR, unmodified DAS28-CRP, and gender adjusted DAS28-CRP scores

	Whole Cohort			Female Adjusted			Male Adjusted		
	DAS28-ESR	DAS28-CRP	Adjusted DAS28-CRP	DAS28-ESR	DAS28-CRP	Adjusted DAS28-CRP	DAS28-ESR	DAS28-CRP	Adjusted DAS28-CRP
Remission (<2.6)	4856	6062	4305	3189	4307	2791	1667	1755	1514
LDA (2.6 - ≤3.2)	3438	4074	3709	2602	3115	2754	836	959	955
MDA (3.2 - ≤5.1)	11807	12053	12644	9280	9438	9936	2527	2615	2708
HDA (>5.1)	10973	8885	10416	8623	6834	8213	2350	2051	2203
Total	31074			22694			7380		

Supplementary table S3 Demographics of Complete and Missing Datasets

	Complete Data Set	Missing Data Set	P value
Number of paired readings	25472	5602	NA
Mean Baseline Age (yrs, SD)	55.5 (12.1)	55.7 (12.1)	0.5
Gender (% Female)	76.4	75.6	0.3
Mean Baseline Disease Duration (yrs, SD)	12.8 (9.5)	12.8 (9.4)	0.7
BMI	26.9 (6.0)	26.8 (6.0)	0.4